

**AMENDMENTS TO THE CLAIMS**

The following listing of the claims is provided in accordance with 37 C.F.R. 1.121:

1. (previously presented) A system for detecting a rub in a turbomachine comprising;

a turbomachine;

sensors monitoring turbomachine conditions; and

an on site monitor in communication with the sensors, and loaded with instructions to implement a method for detecting whether a rub is occurring in the turbomachine.

2. (original) The system of claim 1 further comprising a server in communication with the on site monitor via an internet.

3. (original) A method for detecting a rub in a turbomachine, the method comprising:

monitoring turbomachine conditions; and

determining whether a rub is occurring.

4. (previously presented) A storage medium encoded with a machine-readable computer program code for detecting whether a rub is occurring in a turbomachine, the storage medium including instructions for causing a computer to implement a method comprising:

obtaining data indicating turbomachine conditions; and

determining whether a rub is occurring.

5.-50 (canceled).

51. (previously presented) A system, comprising:  
a turbomachine;  
means for monitoring turbomachine conditions; and  
means for detecting whether a rub is occurring in the turbomachine.

52. (previously presented) A system, comprising:  
a plurality of turbomachine sensors; and  
a rub detection system configured to monitor the plurality of turbomachine sensors and to detect a turbomachine rub event.

53. (previously presented) The system of claim 52, comprising a turbomachine, wherein the plurality of turbomachine sensors are coupled to the turbomachine.

54. (previously presented) A system, comprising:  
a rub detection system configured to monitor operational parameters of a turbomachine and to detect a turbomachine rub event.

55. (previously presented) The system of claim 54, comprising a turbomachine, wherein the rub detection system is coupled to the turbomachine.

56. (previously presented) A method, comprising:  
analyzing turbomachine operational data to detect a rub event in the turbomachine.

57. (previously presented) The method of claim 56, comprising monitoring a turbomachine to obtain the operational data.

58. (previously presented) The method of claim 57, wherein monitoring comprises monitoring the turbomachine on-site.

59. (cancelled)

60. (currently amended) The method of claim 57, wherein monitoring comprises monitoring the operational data in ~~at least substantially~~ real time.

61. (currently amended) The method of claim 56, wherein analyzing comprises detecting the rub event in ~~at least substantially~~ real time with operation of a turbomachine.